

# National Mathematics Magazine

## INDEX TO VOLUME XVII

October, 1942, to May, 1943

TOPIC	AUTHOR	PAGE
Algebraic Function of Geometric Figures.	Howard D. Grossman	168
Announcements.	S. T. Sanders	131
Arithmetic According to Cocker.	E. R. Sleight	248
Building Triangles with Integers	L. V. Robinson	239
Certain Expressions Related to Fourier Series.	J. M. Dobbie	285
Challenge.	S. T. Sanders	282
Characteristic Functions in Statistics.	J. F. Kenney	I, 51; II, 99
Conical Roulettes.	R. P. Johnson	202
Decomposition of Rational Functions into Partial Fractions.	A. W. Bolydreff	261
Euclidean concomitants of the Triangle.	T. L. Wade	335
Fifth Lesson in the History of Mathematics.	G. A. Miller	212
Fourth Lesson in the History of Mathematics.	G. A. Miller	13
Geometric Examples of Convergent Series.	C. A. Barnhart	159
Graphical Solutions for Complex Roots of Quadratics, Cubics, Quartics.	George A. Yanosik	147
Gremlins.	O. G. Harrold	238
History of American Mathematical Journals.	Benjamin F. Finkel	21
Infinite Series.	William E. Byrne	292
Infinity—Its Cause and Cure.	Knox Millsaps	258
Influence of Mathematics on the Philosophy of Descartes.	R. H. Moorman	296
Is Mathematics an Exact Science?	Cecil B. Read	174
Isolate Numbers.	William R. Ransom	268
Laplace's Contribution to Pure Mathematics	A. W. Richeson	73
Letter to the Editor.	G. A. Miller	72
Leveller of Minds.	S. T. Sanders	146
Locus Related to the Euler Line.	Karleton W. Crain	163
Magazine to Receive Aid from M. A. of A.	S. T. Sanders	2
Mathematical By-products.	S. T. Sanders	194
Mathematics and Poetry.	S. T. Sanders	98
Mathematics and Soft Minds.	S. T. Sanders	50
Necessary and Sufficient Conditions that Regression Systems of Sums with Elements in Common Be Linear.	Dzung-shu-Wei	151
Note on Centroid of Moving Points.	J. H. Butchart	360
Note.	N. A. Court	311
Note.	C. E. Springer	360
Note on an Approximation to the Square of a Circle.	Walter H. Lowston	81
Note on Quadrilateral Inscribed in a Semicircle.	F. A. Lewis	70
Note on the Quartic and Its Hessian.	James A. Ward	165
Notes.	W. E. Byrne, E. P. Starke	234
Notes on a Recent Article.	N. A. Court	270
Oblique Projection, Simplified.	Isidor F. Shapiro	177
Once More—Mathematics and the Engineer.	S. T. Sanders	
	Stanley U. Benscoter	330
On Root Approximation.	H. L. Smith	312
On the General Definition of a Conic.	A. W. Bolydreff	
	Franz E. Hohn	31

TOPIC	AUTHOR	PAGE	
On Various Methods of Solving Cubic Equations	H. E. Fettis	117	
On Writing the General Term Coefficient of the Binomial Expansion to Negative and Fractional Powers in Tri-Factorial Form	William Funkenbusch	308	
Pre-Study Examinations in Mathematics	H. M. Cox	351	
Pursuit Problem	Clarence M. Crews	245	
Remarks on a Method for Solving the Torsion Problem	Thomas James Higgins	3	
Seminar Plan in Mathematics	Sister Helen Sullivan	170	
Sixth Lesson in the History of Mathematics	G. A. Miller	341	
Some Analogs of the Triangle Geometry in the Kasner Plane	Loong Chi-Ho	8	
Summation of Finite Series with Polynomial Terms	Albert B. Farnell	68	
Teaching Aids for the War-Time Program	Teaching Aids Service N. J. State Teachers College	142	
Teaching the Conic	C. D. Smith	79	
Teaching the Fundamentals of Mathematics	M. O. Tripp	225	
Theorems, Their Converses and Their Extensions	N. A. Court	195	
Trends in Education	P. G. Robinson	221	
U. S. Marine Corps Women's Reserve	U. S. Marine Corps Officer	334	
Values of the Trigonometric Ratios of $\pi/5$ and $\pi/10$	H. L. Dorwart	115	
BOOKS		REVIEWER	PAGE
Aircraft Mathematics, by S. A. Walling, J. C. Hill	Norma Stelford	95	
Algebra, by P. L. Evans	G. D. Gore	187	
Algebra for College Students, by Edwin R. Smith	J. E. Dotterer	189	
Algebra. A Textbook of Determinants, Matrices and Algebraic Forms, by W. L. Ferrar	R. H. Bruck	188	
Analytic Geometry, by Charles H. Lehmann	Marie M. Johnson	280	
Analytic Geometry, by H. P. Pettit, P. Lutetyn	Samuel F. Bibb	45	
Analytic Geometry, by Smith, Meyer, Salkover	P. K. Smith	370	
Basic College Mathematics, by C. W. Munshower, J. F. Wardwell	Marion E. Stark	48	
Basic Mathematics, by William Betz	Eugene W. Hellmich	140	
Basic Mathematics for Pilots and Flight Crews, by C. V. Newsom, Harold D. Larsen	H. A. Simmons	328	
Calculus, by A. L. Nelson, K. W. Folley, W. M. Borgman	A. S. Householder	45	
Calculus, by H. J. Ettlinger, M. B. Porter	Ernest L. Mackie	235	
Development of Informal Geometry, by Robert Coleman, Jr.	E. R. Breslich	325	
Differential Equations, by Harry W. Reddick	W. E. Byrne	279	
Differential Equations, by Ralph P. Agnew	W. E. Byrne	326	
Elementary Mathematics of Artillery Fire, by J. M. Thomas	N. A. Hall	279	
Essentials of Astronomy, by John C. Duncan	Oliver J. Lee	46	
Gist of Mathematics, by J. H. Moore, Julio A. Mira	W. E. Byrne	187	
Introduction to Managerial Business Statistics	W. D. Baten	371	
Logarithms, Trigonometry, Statistics, by Cooley, Graham, John and Tilley	J. F. Kenney	94	
Manual of Mathematics for Students of Agriculture, by Fred Robertson	A. C. Burdette	141	
Mathematical Monographs, Northwestern University Studies in Mathematics and Physical Science, Vol. I	C. N. Moore	91	
Mathematical Recreations, by Maurice Kraitchik	Ruth M. Ballard	328	
Mathematics Dictionary, by Glenn James, assisted by R. C. James	N. E. Rutt	92	
Mathematics of Air and Marine Navigation, by A. D. Bradley	P. K. Smith	236	
Mathematics Refresher, by A. Hooper	Norma Stelford	324	

## INDEX TO VOLUME XVII

375

BOOKS	REVIEWER	PAGE
Plane and Spherical Trigonometry, by Frank A. Rickey, J. P. Cole.....	Marion E. Stark.....	139
Plane and Spherical Trigonometry, by Paul R. Rider.....	H. V. Park.....	47
Plane Trigonometry (with) Logarithmic and Trigonometric Tables, by E. R. Heineman.....	James M. Earl.....	323
Spherical Trigonometry and Tables, by Granville, Smith, Mikesh.....	W. E. Byrne.....	92
Spherical Trigonometry with Naval and Military Applications, by Kells, Kern, Bland.....	O. G. Harrold.....	46
Spherical Trigonometry with Naval and Military Applications, by Kells, Kern, Bland.....	P. K. Smith.....	326
Treatise on Projective Differential Geometry, by Ernest Preston Lane.....	Vernon G. Grove.....	189
Trigonometry, Plane and Spherical by Miles C. Hartley.....	Horace L. Olson.....	95

## PROBLEMS SOLVED

Of each pair of successive numbers followed by a semicolon, or period, the first denotes the *NUMBER* of the problem solved; the second the *PAGE* on which it is solved.

Aude, H. T. R.....	440,39; 444,85.
Bailey, V. C.....	478,317.
Baskerville, Emma E.....	464,136.
Bradford, W. H.....	488,320.
Bristow, John.....	488,320
Byrne, W. E.....	468,231.
Chernofsky, M. I.....	455,42; 470,137.
Clarke, W. B.....	452,135; 464,136; 462,276; 478,317.
Clutter, Guy E.....	Theory of Pythagoras, 89.
Court, N. A.....	457,42; 430,134; 462,276; 467,277. Also, see "Editors" and "Editorial Note".
Dick, J. S. B.....	382,83.
Editorial Note.....	481,365; 486,367.
Editors.....	437,38; 453,86; 459,87; 438,274.
Grossman, H. D.....	473 (corrected), 43.
Hawthorne, Frank.....	487,319.
Hill, P. J.....	464,136.
Howard, Tryphena.....	470,137.
Huff, William N.....	460,180; 473, 232; 487,320.
Hughes, Orville D.....	466,230.
MacKay, D. L.....	385,84; 463,88; 469, 181; 472,182; 401,272; 478,317; 487,320.
McCluskey, H. C. D.....	484,367.
Parker, W. V.....	464,136; 474, 183.
Nev. R. Mind.....	411,228; 481,364.
Pegg, L. D.....	382,83.
Richtmeyer, C. C.....	464,136.
Robinson, Nelson.....	481,365.
Sisk, A.....	481,365.
Springer, C. E.....	435,315; 478,317; 461,362.
Starke, E. P.....	438,275; 480,318. Also, see "Editors" and "Editorial Note".
Thomas, Paul D.....	442,40; 463,88; 419,133; 464,136; 469,182; 472,182; 474,183; 475,184; 465,229; 462,275; 476,317; 478,317; 487,320; 488,320; 481,365.
Thomas, Richard K.....	476,316.
Wilkins, J. Ernest, Jr.....	488,320.
Yanosik, George A.....	470,137.
Yates, Robert C.....	467,277.